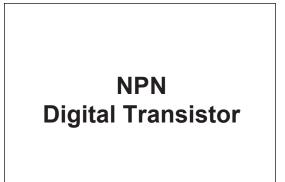
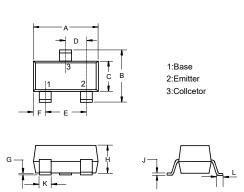


Features

- Built-In Biasing Resistors
- Epitaxial Planar Die Construction
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant.See Ordering Information)

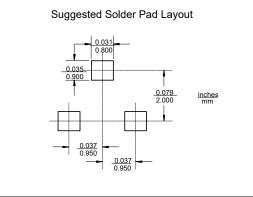


Maximum Ratings @ 25°C Unless Otherwise Specified					
Parameter	Symbol	Min	Тур	Мах	Unit
Collector-Emitter Voltage	V _{CEO}	50			V
Collector-Base Voltage	V _{CBO}	50			V
Emitter-Base Voltage	V _{EBO}	5			V
Collector Current	I _C		100		mA
Power Dissipation	P _D		200		mW
Junction Temperature	TJ			150	°C
Storage Temperature Range	T _{STG}	-55		150	°C



SOT-23

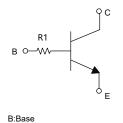
DIMENSIONS					
DIM INC		HES	Μ	М	NOTE
	MIN MAX N		MIN	MAX	NOTE
A	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	



Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Device Marking: 03

Internal Structure



C:Collcetor E:Emitter

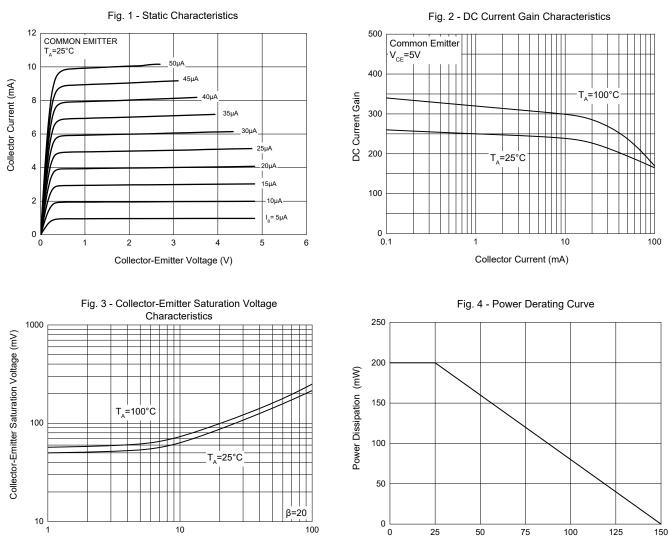


Electrical Characteristics @ 25° C UnlessOtherwise Specified

Parameter	Symbol	Min	Тур	Max	Units	Conditions
Collector-Base Breakdown Voltage	V _{(BR)CBO}	50			V	Ι _C =50μΑ
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	50			V	I _C =1mA
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	5			V	Ι _Ε =50μΑ
Collector Cut-off Current	I _{CBO}			0.5	μA	V _{CB} =50V
Emitter Cut-off Current	I _{EBO}			0.5	μA	V _{EB} =4V
DC Current Transfer Ratio	h _{FE}	100		600		I _C =1mA, V _{CE} =5V
Collector-Emitter Saturation Voltage	V _{CE(sat)}			0.3	V	I _C =5mA, I _B =0.25mA
Input Resistance	R ₁	3.29	4.7	6.11	KΩ	
Transition Frequency	f _T		250		MHz	V _{CE} =10.0V, I _E =-5mA, f=100MHz



Curve Characteristics



Collector Current (mA)

Rev.3-5-09032021

Ambient Temperature (°C)



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:3Kpcs/Reel

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